SAVROLINK

Savronik

HF Radio

Mesh Platform
Type Radios

Beyond
Line-of sight
Datalink

Ground Control
Station

Line-of sight
Datalink

Mesh Hand-Held
Radios

Savrolink Gateway Communication System is a gateway structure that provides efficient and fast communication among radios and IP based telephones forming a single network.

Savrolink system establishes a bridge and provide voice and data transfer capabilities between HF radios, line-of-sight and beyond line-of-sight datalinks, mesh systems and IP telephones that operates on different frequency bands, wave-forms and technologies.

Its distributed architecture allows institutions/organizations operate independently and provides central administration of resources. System enables creating virtual groups and ability to share applications and application-specific data among group members.

Savrolink Gateway Communication System comprises of Equipment Cabinet and sub-units. Equipment Cabinet includes;

• Radio Gateway
• IP Gateway
• Router
• Rugged Laptop (Linux Operating System)
• Savrolink Command/Control Interface Software
• Lightning ve Fan Cooling
• Earphone and Microphone Set

Savrolink Gateway Communication System is compatible with national networks with DMVPN capabilities. With this function, system provides central administration and each resource can work independently in their own architecture.

TECHNICAL SPECIFICATIONS

IP Protocol Support : Multicast/Unicast RTP, SIP, RoIP, VoIP
Analog Radio Port : 4 x DB-15
Network Inteface : 2 x 10/100/1000base-T, IPv4, IPv6, 802.1q VLAN
Ethernet Interface : RJ45
Serial Port Interface : RS-232
USB Port : 3x USB
Audio Compression : G.711 (64 Kbps PCM) μ-law, G729 Annex B, Linear 16
Power Requirement : 100-240 VAC @ 50/60 Hz

Radio Integration

Impedance : 600 Ohm
Termination : Balanced or Unbalanced
Max Input/Output Level : 1 Vpp, (800 mV RMS 0 dBm)
Integration Types : PTT Wire Interface (E&M), 2/4 Wire EIA Tone
Control Input/Output : 5VTTL In - COR, TX Grant Out - PTT

Environmental Specifications

Temperature : 0-60°C
Vibration : 2.17 G (5-700 Hz)
Shock : 1,5 G, 0.5 ms

System allows users to either call out to specific phone numbers or alternatively callers can dial into the system to participate in incidents.

System allows radios that have different manufacturers, frequencies and data protocols to communicate between each other. It supports integration of fixed stations or mobile radio transceivers irrespective of their operations frequencies or protocols.

2 or 4 Wire EIA Tone Remote Control and E&M signalization interfaces for fixed stations are supported by the system, and all radio types are supported with custom cable kits and parameters.

System permits integration of various sensor systems and transferring sensor data (seismic, biometric, environmental, alarm, infrared etc.) among group members. Sensor data can be used to trigger a preset action. Therefore, various multimedia and data communication types are supported.

INTERCITY NETWORK APPLICATION EXAMPLE